## SVTbeam and ACNET

M.Rescigno 10/30/01

#### Which Data?

- Currently SVTbeam & Co. have the following output:
  - For barrel z=0,5

```
\{ x(z),y(z),s_x(z),s_y(z),s_{xy}(z),s_d(z),N_{fit},N_{tot},err, fit_q \}
```

• Soon to be added:

$$x_{beam}(z=0),dx/dz,y_{beam}(z=0),dy/dz$$

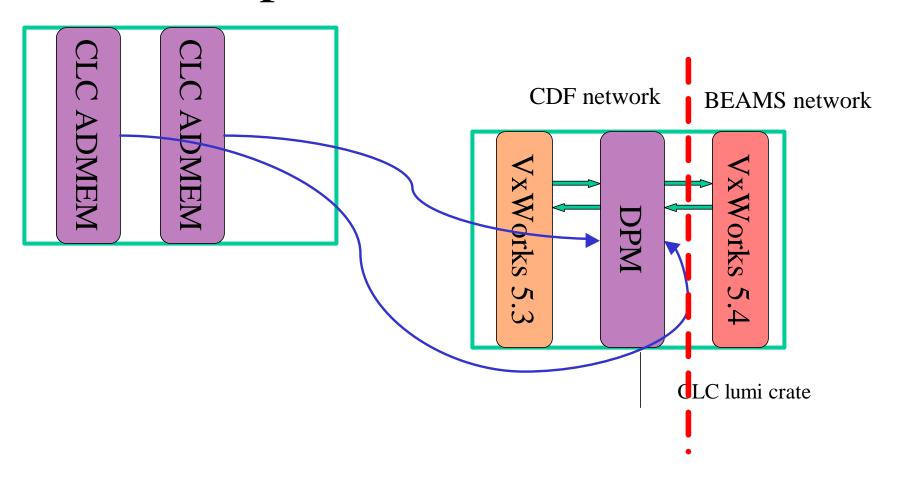
## Where does SVTbeam info go now?

- At the beginning of each new run and whenever a new fit become available:
  - SPYMON publish a smartsocket message with the above info
  - SPYMON update beam offset subtraction LUT in GB board
  - SVTSPYmon (root converter process) draw a sinus function on top of d vs phi plots
  - SVTSPYmon update a text based web page
- At each L2 accept the current beam position measurements is written in SVDD bank

# CLC experience with ACNET

- They provide luminosity/losses measurement
- A dedicated 6U crate in first floor has two CPU
  - The first does the calculation and write result in a DPM board.
  - The second read back this block and fill a memory location in the cpu
- On the second cpu the real ACNET process (from B.Kamper of Beam Division) get the results and send them to ACNET when requested.
- The second CPU is there because it has to run VxWorks 5.4! (Beam division ≠Computing division!)

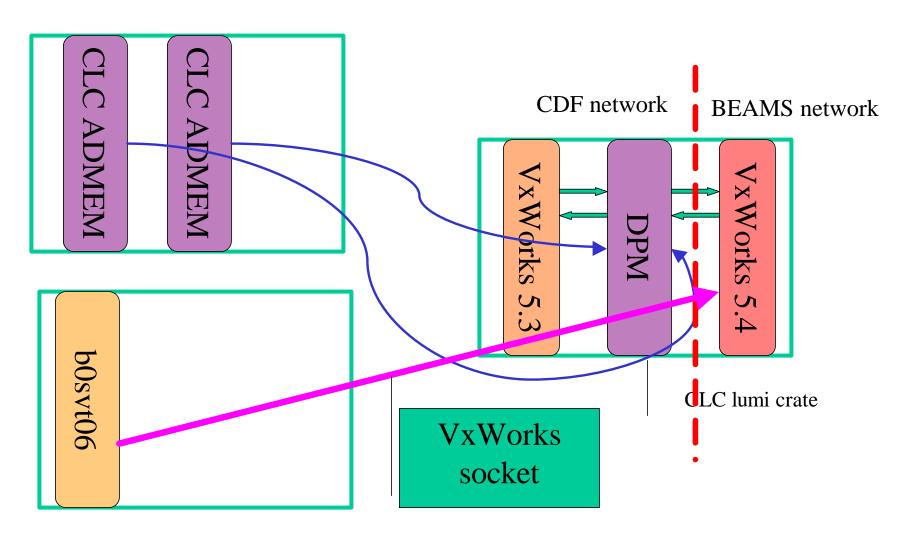
# CLC experience with ACNET



### SVT connection

- Have been talking with beam division expert (B.Kamper)
- Issue is to avoid having a new cpu allocated just for this task.
- The suggested solution has been to open a VxWorks socket from the CLC/ACNET cpu (possible problem with a firewall...)
- Other solutions may include using SmartSocket or an adhoc Unix program (or maybe adding this to one of the existing spy-related program)
- J.Patrick is now head of the beam division control (might be useful!)

## SVT connection



#### Other issues

- Don't know anything about Lumberjack datalogger yet !....
- Is there another database table needed for storing measurement of beam position from the last run?

SVTBeam													
Time	Run	X0	<b>Y0</b>	<i>X1</i>	<b>Y1</b>	X2	<b>Y2</b>	<i>X3</i>	<b>Y</b> 3	X4	<b>Y4</b>	<i>X</i> 5	<i>y</i> 5

•Who is going to write this table? RC? A dedicated consumer (aka D-mode calibration)? Something else?